No 13 Papied March 5-1828 A 4 Sanson Enaugural Espay) Hydrophobia for the blegree of Doctor of Medicino University of Pennsylvania William W. Carrington Virginia Philadelphia. January 4 1828.

## Androphobia\_

This term is derived from vowe water and posses to fear, and affords and instance where a disease deriver it, name from a lingle symptom even when this is not an uniform one. It originales with the canine species comprising the dog, wolf and fox; and some have added the domestiocat, there alone are capable of communicating it, not with -- standing the hook of medical authority to the contrary: many have afserted the horse, ox, and hog populace this power, and we are toto that m majindie provid by direct ex. - periment that, the human Rubbut was cupable of communicating this disease by moculation of the virus; he collected a portion of the Raliva from a man Infering Agdrophobia in its last stage, and inserted it under the Min of a healthy dog, and that the dog became rabid a month afterwards. From the position we have taken, we would refer the occurence of the discord to come other cause that had not been noticed, probably the dog had been exposed to the bite of a mad dog

or it might have been the exects of violent nervous irritation and not the genuine rabies. In opposition to the opinion of this disease bring propagatio by the horse, we can adduce one striking instance, that fell under our observation during the last lummer. a horse was bitten by a dog known to be mad by the infing done by him elsewhere, in the course of twelve days the horse discovered most of the sympotoms of rabies, and bit the groom while administering some remedy; the next day to be was called to see the man and stated to him the doctrine that was generally received and as he supposed to as correct, that a gramini. - vorous animal conto not communicate the direase, also the method to be puroued by those who entertained a different opinion viz the excepcion of the bitten fruit or amputating the hand, and of there he might choose. The man professed running the risk of incurring the

disease to the neafesty of undergoing an operation;

bor b\_ went on to treat the bite as a common lacerated

wound, the man recovered pergetty although the horse died in a few days. Marness in the dog is whend in by the Common appearances of Jever, a dull heavy look, hanging of the tail with a disposition to bite every thing in its way, soon after there appearances, he becomes thin and weak, his breathing is quick, hurried and difficult, his longue is somewhat witho and hangs from his month, and assumes a haden here: a frothy saliva is discharged, he looses all appetito: There symptoms grasually increase untile he becomes quite frinons in which state be remains, when at last he seems entirely oven come by exchaustion and generally dies within thisty six hours from the occurence of the complete paroagen. melancholy experience has proven that the nearer to this state the more dangerous the bite. The symptoms in a man bitten by a mad dog present more

The symptoms in a man bitten by a mad dog present more or less the same character, the part bitten first chows eight of the occurrence of the disease, by becoming painful, the accurrence or oud elevates, sometimes discharging a thin ichor attended with a peculiar tingling tensation in

the part, and frains shoot from the wound to every horh of the body, more particularly to the chest producing a conse of straitness and choking about the throat, with horror at the right, or sound of water falling from one veful to aw. other. The pratient becomes defenfeed and anxions, sometimes falls into a melancholy from which he is with difficulty roused, his blufe is distarbed by frightful dreams and Musmodic Startings; the respiration is at this slage labour sons and frequently interrupted by light and other indi. cations of anxity, the pulse is quick, though the general temperature at their time does not vary much from the natural elaudard. There is entire loss of appetite attended with great theirst but the patient dare not drink, In the latter stage the Countinance broomer haggard the eye turgio, sometimes very fierce and glaving, his mouth and fances are filled with a tough thick Saliva which he is constantly spetting from him, Complaining of being annoyed by it; the cestles ness is entreme, the mus der of his face and neck are distorted, the pulse be-

related of the virus lying dormant for twelve month, and

longer, while the disease sometimes supervenes in four orgive days. This irregularity is no doubt overing to the same causes which affect the occurrence of most Contagious diseases, viz-the nature or presence of the provisionent or exciting causes which gives energy to the visus, as the depressing passions, great fatigue &.

A like uncertainty exists among quadrups, the morimo term is throught to be ten or turbo days.

The cause of the original disease is subjected to be the excitement of whement rage putrio food long continued thirds

Levere burger, a hot and sully state of the atmosphere;

but all of these are afrigued as causes with sufficient grounds,

vehement rage will produce an influence on the labia and

acutes it capable of existing alarming nervous dymptoms,

but not the specific symptoms of ratios canina. Sulver

food as has been will observed, offers too general a cause

for a disease of 20 rase occurrence, in fact dogs subject

mostly upon meat in this state particularly in warm climate,

tohere the disease heldoms if ever occurs, for we are

toto that it is not known in the west In Dis and South america; and experiments by confining dogs without food or water even to starvation, show at least that there are not very frequent causes. That a pearliar state of the atmosphere conducer to the origin of this disease, we will not deny; probably rapid changes from heat to cord and vice versa, or great heat combined with moisture, as the disease is observed to prevail most after such a state of the atmospheres. The general character of the symptoms indicate that the nervous system was the immediate quarter of the disease this was the opinion of lealler und Morgagni tohile D'Rush regens the appearances to the languiferous system and thought it nearly identical with the general dass ap Malignant Jevers, arising from the lame cause, vary. ing nothing in its course; and requiring the Rame treatment; he goes to far as to call it the Hydrophobic Plate of Jever. This appears to as objectionable and affords a striking illustration by this close generalization

from the peculiar state of the habit or some other cause; When there most likely do not belong to the same class of direase. We are too by D'Hush that expround to coto night air, a wound in a tendinous part worms, the bite of an angry but not diseased dog have all causes Cases of Spontoeneous Agdrophobia; how much more safely could we refer symptoms from there causes to violent nervous irritation, as they are the most fre. quent causes op each irritation. D' Chapman men-- tions that in Gastritis there frequently owners marry of the symptoms of Agdrophoviw; as drows of water, entoler ance of light or lound, difficulty of deglutation and extrame mervine sensibility; and can the identity of these two diseases be contended for? nuther do post mortino examinations afford any widence of the analogy between this and the date of malignant Jevero: for the chomach in these last is always more or les phlojoso, but in Aydrophia there are no regular appearances; the reports of disportions of bubjects bying

of this descare under appearentles the Came circumstances in to entender different contractions where the he received parte Connecie un v. much mich mitamic, and even the Scophague in a Homoit Chemin in par al intermedia all menne le gangrene while others distaves without of ther, , i cometimes it is have formed the brand algerted the before there or lear, it was to bestimen water. De mead to a partier on this destired grand the sources ben much unplanned, the left lobe of the tunge black with collections i tient viant de intlance, les lives was hard and of a filler believe interes, and a quantità or grandi verico bele le da che mand. Cares are related by écurages and Morgages s'écident changes in the chanceler of it flore. There is nothing connected with the det ail that reme to my commercy received and established then the igniston i it sometime or dread of router is peculiar to the human race; ", ! .t. occurance of a cure to the contrary during the heart your, as reprovto to me by a very intelligent & rasheilable.

gentlimus, excite doubts whether the ground de generally tolkers by the moderate world he tenable. The nature of the case was This, a theefa having been bellen by an mad dog, in eightor tou days manifested the usual symptoms of the disense, und during the most violent stage, a pitcher of water son, lusties reprivil solvere upon the ocumula simulationally the-.come convictio. There is occasionally a departure from its general character and it afeamer the intermittent type; the interals are for the most furt lunar, as at the return of every full moon the part bitters become very irri. table, and spasmed or great amusity about the preservia. Intervener. This is most aft to our from The disease Communicated by the cat, and the venes in a measure com to loose its specific character, to perfrip through The Cut; as some of the most alarming hymptoms are frequently absent, or very much diministred in trolonce; The patient for example, discovering little or no dread of water, which always regulater the quantum of letonic Construction. The nature of this disease is so unsettles, and as there have

been so many hypotheses to enfelain its nature and affin its pout, so they have given rise to a corres ponding diversity of treatment. The remoders for My originalona divised them - ledver into two Rnion 1st Juck are are proper to prevent the disease, after the virus of the rabid animal is received into the body. 2" Such as are proper to cure it when form, The most essimuland measure of the provention from with untire exception of the belles part and inducing salvation. Cares have been reported of preventing the disease by week ing the looned in dall and water, and & flur garth asrive, frequent effections of Cold water, in order to wash out the virus; this is rather an equivocal remedy and no doubt originated in necessity, or the patient, fear, of the limite; great reliance is also placed whom the free use of the lutinitations but the weight of medical controvery groups, preponderates in favour of exultion; both on it more spectually, and looner removes the verses from the existen. From the accumulance of the poison bying dormant for a con-· liderable time, the operation should be performed even a week

after the bite. There is another method proposed by a Rufsian thypician; m marachette, which thrown new light on the outfiel and promises something lower or the miligation of this disease. the first points out certains indications for discovering the existence of the virue and then give the means of destroying or preventing its effects; we will insert here his theory. It is soident that this vienes does not continue in the wound; but in carried in its full force to a part of the bory prosently to be described; (which he afterwards tills us is, where the common duets of the bublingual and bubmaciliary glands open ow each side of the framew of the longue) at this point it instantly acts as a porsegule astringent, and by aucumu cation inflames and shuts the Juspages which mature endea -vours to expel it from the animal economy. It is precisely to the extremetice of Mere ducte that the Edge, sphobisoins is conveged after abite inflicted by a mibil animal, and there it is temporarily detirined forming at the hor opsto pust described one or two small tumoners of uniqual ligo: by touching there with a probe, it is found there is contained

the head. We cannot accede to the first part of nir position, that the virus does not continue in the wound; at least for a few days: If not how do we account for the sucressor cition, wen when delaged for several days? Wet though we have differed from D'marochetti; theory in part, we come with him, that the virus displays delp in the sublingual gland or the extremely of its duct, this seems to be the work house of againstation. Ming ust the symp toms be accounted for by supposing, that the virus of the rabio aminal is introduced into the egetem by the bile, that it livere lies dormant, untill brought into action by Some cause favourable to that peculiar actions. That the abjection begins at the point of inoculation, und extends diele through the Lyslem by means of the nervous sympa--this, producing an immediate and pearlier desired actions in the Cubhingual glands; Their completing all the Symptoms af ity drophobia. That the disease prior to this pendiar action in the sublingual glande differ in no respect from the telanic speason; and that this action must

take place in the glands above named, to constitute the Complete divease. Our attention was first directes to this subject by observing a autom among the negroes, of what ineg tall worming inter doys. I have greguently witness this operation, and it consists in nothing more than exterts aling the bublinguel glands; When there were entires removre the dog loar perfectly lafe from the disease. The universality of the practice gave. Credit to the plan and we were induced to make the Jollowing experiments. Il she Sublen, mal glands were unterpated from Leveral'dags and they were exposed to the bile of a mad dog, get mither of them were affected with the disease. Supposing that the ouverence of the disease might have been prevented by Rome Cacualty, we were induced to repeat the experiments; and enfrosed them to dogo that were made at all the different etajes of the disease, and met with the Rume result. L. at the Rame time we expresed two dogs, that had each lost one sublingual gland, one of these went mas, the other escaped entirely.

3. That no doubt should exist as to the certainty of the Rubbuts of there experiments, having been exposed to rabis animals, dags perfectly healthy and entire were exposed, and the disease in every case showed itself in a character that could not be mistaken. If however the local measures should prove imflictual, we must resort to general means, which unfortunately are very uncertains; and probably no particular plan can certainly be Raio to have curio a single well established case. And we ful authorized in saying this from the frequent failure of all remedies lingle or Conjoined, and from the disease someting wearing itself out; as we can harof attribute the aires of lone reportes cases, to the heterogenions and incomputable reme--dus employed. We will however present such as are of most promise. Some physicians have Rupports it neufrang to Stimulate and Support the vital power in order to enable it to resist the enervating effects of this disease, in which they Consider the most danger and for This purpose have addised the liberal use of the volatile alkali and Campehor: the I. bank has been used for the lame effect. In direct opposition

to this plan, is that of immediately exhausting the egstemby very frequent and Copions bleedings, even to deliquinin; or the principle of its very inflammatory character. as cooperating with immersion in cold water was used, and all mean . sures that reduce the hiring power to its last obb . \_ And records are replete with cases in which this depliting plans has buccos, but frequently other powerful agents as marcung, were used at the lame time which rendered there reports very unsatisfactory. Not a few have entertained the notion, that the virus should like other poisons be Sphored by antidoler and The usual specifics. The muniatic, bulphuric, and above all the acetic acid has been regarded as anti-lyssic; and The alkaliis (of which ammonies is the acst) have been esteemed as belonging to the same class. Reports opente Javour ably of muray. The corrosive sublimate harbeen proferred as producing its effects doonest, togather with inum -tion or probably framigations on the object because be a spring ptyalism. The liston of this disease prones that framm, and that of The most unrelenting order, forms one of it, leaving symptoms; hence

avoides, such as light, noise, agitation in the air, and above all water, for it is a frequent but consurable practice for every physician who may be called in, to present a glass of water in order to witness its effects: The molions of a formale drife or bed cuitained produce the same effects; and on no account should the patient be moved from his bis to be plunged. inte cold water or warm oil as come have advised, and as much composure as we can profeibly procure under this restless Male of the body is positively demanded. (lome have recommended the straight Judlet ) on Connexion with there the Dover pow. der is serviceable, Inice The system is from from irregular action when there is a general moisture on the surface. The purgatives are not particularly indicated, get The Forost, Thouto be Rept open, and when plethora prevails to any extent blood should be drawn from the arms and repeated if neuloany, but would not be unged and deligious animi as lome practetioners have contenors.